



EFSA Panel on Dietetic Products, Nutrition and Allergies (NDA); Scientific Opinion on the substantiation of health claims related to boron and prevention and treatment of prostate cancer (ID 221), maintenance of normal thyroid function (ID 222) and contribution to normal cognitive function (ID 223) pursuant to Article 13(1) of Regulation (EC) No 1924/2006

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SCIENTIFIC OPINION

Scientific Opinion on the substantiation of health claims related to boron and prevention and treatment of prostate cancer (ID 221), maintenance of normal thyroid function (ID 222) and contribution to normal cognitive function (ID 223) pursuant to Article 13(1) of Regulation (EC) No 1924/2006¹

EFSA Panel on Dietetic Products, Nutrition and Allergies (NDA)^{2, 3}

European Food Safety Authority (EFSA), Parma, Italy

SUMMARY

Following a request from the European Commission, the Panel on Dietetic Products, Nutrition and Allergies was asked to provide a scientific opinion on a list of health claims pursuant to Article 13 of Regulation (EC) No 1924/2006. This opinion addresses the scientific substantiation of health claims in relation to boron and prevention and treatment of prostate cancer, maintenance of normal thyroid function and contribution to normal cognitive function. The scientific substantiation is based on the information provided by the Member States in the consolidated list of Article 13 health claims and references that EFSA has received from Member States or directly from stakeholders.

The food constituent that is the subject of the health claims is boron. The Panel considers that boron is sufficiently characterised.

Prevention and treatment of prostate cancer

The claimed effect is “prostate health”. The target population is assumed to be adult males. The Panel notes that the references provided referred to the consumption of boron in relation to prostate cancer prevention and treatment.

The Panel considers that the claim is related to the prevention and treatment of a disease, and does not comply with the criteria laid down in Regulation (EC) No 1924/2006.

¹ On request from the European Commission, Question No EFSA-Q-2008-1008, EFSA-Q-2008-1009, EFSA-Q-2008-1010, adopted on 08 April 2011.

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³ Acknowledgement: The Panel wishes to thank for the preparatory work on this scientific opinion: The members of the Working Group on Claims: Carlo Agostoni, Jean-Louis Bresson, Susan Fairweather-Tait, Albert Flynn, Ines Golly, Marina Heinonen, Hannu Korhonen, Martinus Løvik, Ambroise Martin, Hildegard Przyrembel, Seppo Salminen, Yolanda Sanz, Sean (J.J.) Strain, Inge Tetens, Hendrik van Loveren and Hans Verhagen. The members of the Claims Sub-Working Group on Mental/Nervous System: Jacques Rigo, Astrid Schloerscheidt, Barbara Stewart-Knox, Sean (J.J.) Strain, and Peter Willatts.

Maintenance of normal thyroid function

The claimed effect is “thyroid health”. The target population is assumed to be the general population. In the context of the proposed wordings, the Panel assumes that the claimed effect refers to the maintenance of normal thyroid function. The Panel considers that maintenance of normal thyroid function is a beneficial physiological effect.

No human studies were provided from which conclusions could be drawn for the scientific substantiation of the claim.

On the basis of the data presented the Panel concludes that a cause and effect relationship has not been established between the consumption of boron and maintenance of normal thyroid function.

Contribution to normal cognitive function

The claimed effect is “mental health”. The target population is assumed to be the general population. In the context of the references provided, the Panel assumes that the claimed effect refers to contribution to normal cognitive function. The Panel considers that contribution to normal cognitive function is a beneficial physiological effect.

No human studies were provided from which conclusions could be drawn for the scientific substantiation of the claim.

On the basis of the data presented the Panel concludes that a cause and effect relationship has not been established between the consumption of boron and contribution to normal cognitive function.

KEY WORDS

Boron, prostate cancer, thyroid function, cognitive function, health claims.

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TERMS OF REFERENCE AS PROVIDED BY THE EUROPEAN COMMISSION

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EFSA DISCLAIMER

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INFORMATION AS PROVIDED IN THE CONSOLIDATED LIST

The consolidated list of health claims pursuant to Article 13 of Regulation (EC) No 1924/2006⁴ submitted by Member States contains main entry claims with corresponding conditions of use and literature for similar health claims. EFSA has screened all health claims contained in the original consolidated list of Article 13 health claims which was received by EFSA in 2008 using six criteria established by the NDA Panel to identify claims for which EFSA considered sufficient information had been provided for evaluation and those for which more information or clarification was needed before evaluation could be carried out⁵. The clarifications which were received by EFSA through the screening process have been included in the consolidated list. This additional information will serve as clarification to the originally provided information. The information provided in the consolidated list for the health claims which are the subject of this opinion is tabulated in Appendix C.

ASSESSMENT

1. Characterisation of the food/constituent

The food constituent that is the subject of the health claims is boron.

It has not been established that boron is an essential nutrient for humans. Boron occurs in foods as borate and boric acid, and can be measured by established methods. Daily intakes of boron from food and water vary from 1 to 7 mg/day, depending on geographical region and dietary patterns (Richold, 1998). Main dietary sources are plant foods. Fruits, legumes, leafy vegetables, nuts, wine, cider and beer are particularly rich sources (Naghii et al., 1996). Drinking water typically contains <1 mg boron/L, albeit the range is large. The mean intake from water ranges from 0.2-0.6 mg/day (EFSA, 2004).

Boron is authorised for addition to foods (Annex I of Regulation (EC) No 1925/2006⁶ and Annex I of Directive 2002/46/EC⁷). This evaluation applies to boron naturally present in foods and added to foods.

The Panel considers that the food constituent, boron, which is the subject of the health claims, is sufficiently characterised.

2. Relevance of the claimed effect to human health

2.1. Prevention and treatment of prostate cancer (ID 221)

The claimed effect is “prostate health”. The Panel assumes that the target population is adult males.

The Panel notes that the references provided referred to the consumption of boron in relation to prostate cancer prevention and treatment.

⁴ Regulation (EC) No 1924/2006 of the European Parliament and of the Council of 20 December 2006 on nutrition and health claims made on foods. OJ L 404, 30.12.2006, p. 9–25.

⁵ EFSA Panel on Dietetic Products, Nutrition and Allergies (NDA), 2011. General guidance for stakeholders on the evaluation of Article 13.1, 13.5 and 14 health claims. EFSA Journal, 9(4):2135, 24 pp.

⁶ Regulation (EC) No 1925/2006 of the European Parliament and of the Council of 20 December 2006 on the addition of vitamins and minerals and of certain other substances to foods. OJ L 404, 30.12.2006, p. 26–38.

⁷ Directive 2002/46/EC of the European Parliament and of the Council of 10 June 2002 on the approximation of the laws of the Member States relating to food supplements. OJ L 183, 12.7.2002, p. 51–57.

The Panel considers that the claim is related to the prevention and treatment of a disease, and does not comply with the criteria laid down in Regulation (EC) No 1924/2006.

2.2. Maintenance of normal thyroid function (ID 222)

The claimed effect is “thyroid health”. The Panel assumes that the target population is the general population.

In the context of the proposed wordings, the Panel assumes that the claimed effect refers to the maintenance of normal thyroid function.

The Panel considers that maintenance of normal thyroid function is a beneficial physiological effect.

2.3. Contribution to normal cognitive function (ID 223)

The claimed effect is “mental health”. The Panel assumes that the target population is the general population.

In the context of the references provided, the Panel assumes that the claimed effect refers to contribution to normal cognitive function. Cognitive function includes memory, attention (concentration), learning, intelligence and problem solving, which are well defined constructs and which can be measured by validated psychometric cognitive tests.

The Panel considers that contribution to normal cognitive function is a beneficial physiological effect.

3. Scientific substantiation of the claimed effect

3.1. Maintenance of normal thyroid function (ID 222)

Among the references provided to substantiate the claim were two narrative reviews that discussed possible biological functions of boron but did not provide original data for the scientific substantiation of the claim. One reference was in Russian and a translation in an EU language was not available to the Panel. One animal study did not address endpoints related to normal thyroid function. The Panel considers that no conclusions can be drawn from these references for the scientific substantiation of the claim.

One animal study addressed the effects of boron supplementation on thyroid hormone concentrations in pigs. The Panel considers that human studies are required for the substantiation of a claim, and that evidence provided in animal studies alone is not sufficient to predict the occurrence of an effect of boron consumption on the maintenance of normal thyroid function in humans.

The Panel concludes that a cause and effect relationship has not been established between the consumption of boron and maintenance of normal thyroid function.

3.2. Contribution to normal cognitive function (ID 223)

Among the references provided was one animal study which did not address endpoints related to normal cognitive function. The Panel considers that no conclusions can be drawn from this reference for the scientific substantiation of the claim. Among the references provided were also several textbooks, reports from authoritative bodies and narrative reviews referring to potential biological functions of boron in humans. Some of these references mentioned a possible role for boron in brain function, and referred to the work of Penland (1994, 1998) described below.

A randomised, double-blind, placebo-controlled, cross-over trial was undertaken in 13 healthy post-menopausal women aged 50 to 78 years not receiving oestrogen-replacement therapy (Penland, 1994, 1998). For 21 days (equilibration period), subjects received a diet supplemented with 200 mg magnesium and 3 mg boron/2000 kcal/day. Each subject was then given all four supplement combinations created by the factorial crossing of 0 (placebo) and 200 mg magnesium with 0 (placebo) and 3 mg boron for 42 days, each in a random order. Supplements were administered using a Latin square design. Two types of measure were collected. One of these measures was brain electrical activity, which was analysed according to frequency bands. The Panel notes that brain electrical frequency patterns are not established measures of cognitive function. The second type of measure was a selection of cognitive and psychomotor tests taken from the Cognition Psychomotor Assessment System battery which was developed by the author, and which was inadequately referenced and does not appear to have been fully validated. These data were collected during the last week of each 42-day period. The Panel notes that the test battery comprised 13 cognitive and psychomotor tests, some of which included several sub-tests, and that no adjustment for multiple testing was made. The Panel considers that no conclusions can be drawn from this reference for the scientific substantiation of the claim.

Two other human studies were undertaken by the same laboratory in 15 healthy adults (five men, five post-menopausal women on oestrogen-replacement therapy, and five post-menopausal women not on oestrogen-replacement therapy) (Penland, 1994, 1998). Studies began with a 14-day equilibration period, followed by a 63-day boron-depletion period, and ended with a 49-day boron-repletion period. The basal diet was supplemented with 3 mg boron/day during the equilibration and boron-repletion periods, and in one study the diets were also supplemented with 0.8 mg copper/day. Various tests of brain electrical activity and cognitive tasks were carried out at the end of these two periods. However, because the boron treatments were not randomised, it is not possible to distinguish between time and treatment effects. The Panel considers that no conclusions can be drawn from these two studies for the substantiation of the claim.

One animal study investigated the effect of boron on measures of behaviour in rats. The Panel considers that evidence provided in animal studies is not sufficient to predict the occurrence of an effect of boron consumption on normal cognitive function in humans.

The Panel concludes that a cause and effect relationship has not been established between the consumption of boron and contribution to normal cognitive function.

CONCLUSIONS

On the basis of the data presented, the Panel concludes that:

- The food constituent, boron, which is the subject of the health claims, is sufficiently characterised.

Prevention and treatment of prostate cancer (ID 221)

- The claimed effect is “prostate health”. The target population is assumed to be adult males. In the context of the references provided, it is assumed that the claim refers to prostate cancer prevention and treatment.
- The claim does not comply with the criteria laid down in Regulation (EC) No 1924/2006.

Maintenance of normal thyroid function (ID 222)

- The claimed effect is “thyroid health”. The target population is assumed to be the general population. Maintenance of normal thyroid function is a beneficial physiological effect.

- A cause and effect relationship has not been established between the consumption of boron and maintenance of normal thyroid function.

Contribution to normal cognitive function (ID 223)

- The claimed effect is “mental health”. The target population is assumed to be the general population. Contribution to normal cognitive function is a beneficial physiological effect.
- A cause and effect relationship has not been established between the consumption of boron and contribution to normal cognitive function.

DOCUMENTATION PROVIDED TO EFSA

Health claims pursuant to Article 13 of Regulation (EC) No 1924/2006 (No: EFSA-Q-2008-1008, EFSA-Q-2008-1009, EFSA-Q-2008-1010). The scientific substantiation is based on the information provided by the Member States in the consolidated list of Article 13 health claims and references that EFSA has received from Member States or directly from stakeholders.

The full list of supporting references as provided to EFSA is available on: <http://www.efsa.europa.eu/panels/nda/claims/article13.htm>.

REFERENCES

- EFSA (European Food Safety Authority), 2004. Opinion of the Scientific Panel on Dietetic Products, Nutrition and Allergies on a request from the Commission related to the Tolerable Upper Intake Level of Boron. Request N° EFSA-Q-2003-018. The EFSA Journal 210, 1-9.
- Naghii MR, Wall PM and Samman S, 1996. The boron content of selected foods and the estimation of its daily intake among free-living subjects. Journal of the American College of Nutrition, 15, 614-619.
- Penland JG, 1994. Dietary boron, brain function, and cognitive performance. Environmental Health Perspectives, 102 Suppl 7, 65-72.
- Penland JG, 1998. The importance of boron nutrition for brain and psychological function. Biological Trace Element Research, 66, 299-317.
- Richold M, 1998. Boron exposure from consumer products. Biological Trace Element Research, 66, 121-129.

APPENDICES

APPENDIX A

BACKGROUND AND TERMS OF REFERENCE AS PROVIDED BY THE EUROPEAN COMMISSION

The Regulation 1924/2006 on nutrition and health claims made on foods⁸ (hereinafter "the Regulation") entered into force on 19th January 2007.

Article 13 of the Regulation foresees that the Commission shall adopt a Community list of permitted health claims other than those referring to the reduction of disease risk and to children's development and health. This Community list shall be adopted through the Regulatory Committee procedure and following consultation of the European Food Safety Authority (EFSA).

Health claims are defined as "any claim that states, suggests or implies that a relationship exists between a food category, a food or one of its constituents and health".

In accordance with Article 13 (1) health claims other than those referring to the reduction of disease risk and to children's development and health are health claims describing or referring to:

- a) the role of a nutrient or other substance in growth, development and the functions of the body; or
- b) psychological and behavioural functions; or
- c) without prejudice to Directive 96/8/EC, slimming or weight-control or a reduction in the sense of hunger or an increase in the sense of satiety or to the reduction of the available energy from the diet.

To be included in the Community list of permitted health claims, the claims shall be:

- (i) based on generally accepted scientific evidence; and
- (ii) well understood by the average consumer.

Member States provided the Commission with lists of claims as referred to in Article 13 (1) by 31 January 2008 accompanied by the conditions applying to them and by references to the relevant scientific justification. These lists have been consolidated into the list which forms the basis for the EFSA consultation in accordance with Article 13 (3).

ISSUES THAT NEED TO BE CONSIDERED

IMPORTANCE AND PERTINENCE OF THE FOOD⁹

Foods are commonly involved in many different functions¹⁰ of the body, and for one single food many health claims may therefore be scientifically true. Therefore, the relative importance of food e.g. nutrients in relation to other nutrients for the expressed beneficial effect should be considered: for functions affected by a large number of dietary factors it should be considered whether a reference to a single food is scientifically pertinent.

⁸ OJ L12, 18/01/2007

⁹ The term 'food' when used in this Terms of Reference refers to a food constituent, the food or the food category.

¹⁰ The term 'function' when used in this Terms of Reference refers to health claims in Article 13(1)(a), (b) and (c).

It should also be considered if the information on the characteristics of the food contains aspects pertinent to the beneficial effect.

SUBSTANTIATION OF CLAIMS BY GENERALLY ACCEPTABLE SCIENTIFIC EVIDENCE

Scientific substantiation is the main aspect to be taken into account to authorise health claims. Claims should be scientifically substantiated by taking into account the totality of the available scientific data, and by weighing the evidence, and shall demonstrate the extent to which:

- (a) the claimed effect of the food is beneficial for human health,
- (b) a cause and effect relationship is established between consumption of the food and the claimed effect in humans (such as: the strength, consistency, specificity, dose-response, and biological plausibility of the relationship),
- (c) the quantity of the food and pattern of consumption required to obtain the claimed effect could reasonably be achieved as part of a balanced diet,
- (d) the specific study group(s) in which the evidence was obtained is representative of the target population for which the claim is intended.

EFSA has mentioned in its scientific and technical guidance for the preparation and presentation of the application for authorisation of health claims consistent criteria for the potential sources of scientific data. Such sources may not be available for all health claims. Nevertheless it will be relevant and important that EFSA comments on the availability and quality of such data in order to allow the regulator to judge and make a risk management decision about the acceptability of health claims included in the submitted list.

The scientific evidence about the role of a food on a nutritional or physiological function is not enough to justify the claim. The beneficial effect of the dietary intake has also to be demonstrated. Moreover, the beneficial effect should be significant i.e. satisfactorily demonstrate to beneficially affect identified functions in the body in a way which is relevant to health. Although an appreciation of the beneficial effect in relation to the nutritional status of the European population may be of interest, the presence or absence of the actual need for a nutrient or other substance with nutritional or physiological effect for that population should not, however, condition such considerations.

Different types of effects can be claimed. Claims referring to the maintenance of a function may be distinct from claims referring to the improvement of a function. EFSA may wish to comment whether such different claims comply with the criteria laid down in the Regulation.

WORDING OF HEALTH CLAIMS

Scientific substantiation of health claims is the main aspect on which EFSA's opinion is requested. However, the wording of health claims should also be commented by EFSA in its opinion.

There is potentially a plethora of expressions that may be used to convey the relationship between the food and the function. This may be due to commercial practices, consumer perception and linguistic or cultural differences across the EU. Nevertheless, the wording used to make health claims should be truthful, clear, reliable and useful to the consumer in choosing a healthy diet.

In addition to fulfilling the general principles and conditions of the Regulation laid down in Article 3 and 5, Article 13(1)(a) stipulates that health claims shall describe or refer to "the role of a nutrient or other substance in growth, development and the functions of the body". Therefore, the requirement to

describe or refer to the 'role' of a nutrient or substance in growth, development and the functions of the body should be carefully considered.

The specificity of the wording is very important. Health claims such as "Substance X supports the function of the joints" may not sufficiently do so, whereas a claim such as "Substance X helps maintain the flexibility of the joints" would. In the first example of a claim it is unclear which of the various functions of the joints is described or referred to contrary to the latter example which specifies this by using the word "flexibility".

The clarity of the wording is very important. The guiding principle should be that the description or reference to the role of the nutrient or other substance shall be clear and unambiguous and therefore be specified to the extent possible i.e. descriptive words/ terms which can have multiple meanings should be avoided. To this end, wordings like "strengthens your natural defences" or "contain antioxidants" should be considered as well as "may" or "might" as opposed to words like "contributes", "aids" or "helps".

In addition, for functions affected by a large number of dietary factors it should be considered whether wordings such as "indispensable", "necessary", "essential" and "important" reflects the strength of the scientific evidence.

Similar alternative wordings as mentioned above are used for claims relating to different relationships between the various foods and health. It is not the intention of the regulator to adopt a detailed and rigid list of claims where all possible wordings for the different claims are approved. Therefore, it is not required that EFSA comments on each individual wording for each claim unless the wording is strictly pertinent to a specific claim. It would be appreciated though that EFSA may consider and comment generally on such elements relating to wording to ensure the compliance with the criteria laid down in the Regulation.

In doing so the explanation provided for in recital 16 of the Regulation on the notion of the average consumer should be recalled. In addition, such assessment should take into account the particular perspective and/or knowledge in the target group of the claim, if such is indicated or implied.

TERMS OF REFERENCE

HEALTH CLAIMS OTHER THAN THOSE REFERRING TO THE REDUCTION OF DISEASE RISK AND TO CHILDREN'S DEVELOPMENT AND HEALTH

EFSA should in particular consider, and provide advice on the following aspects:

- Whether adequate information is provided on the characteristics of the food pertinent to the beneficial effect.
- Whether the beneficial effect of the food on the function is substantiated by generally accepted scientific evidence by taking into account the totality of the available scientific data, and by weighing the evidence. In this context EFSA is invited to comment on the nature and quality of the totality of the evidence provided according to consistent criteria.
- The specific importance of the food for the claimed effect. For functions affected by a large number of dietary factors whether a reference to a single food is scientifically pertinent.

In addition, EFSA should consider the claimed effect on the function, and provide advice on the extent to which:

- the claimed effect of the food in the identified function is beneficial.
- a cause and effect relationship has been established between consumption of the food and the claimed effect in humans and whether the magnitude of the effect is related to the quantity consumed.
- where appropriate, the effect on the function is significant in relation to the quantity of the food proposed to be consumed and if this quantity could reasonably be consumed as part of a balanced diet.
- the specific study group(s) in which the evidence was obtained is representative of the target population for which the claim is intended.
- the wordings used to express the claimed effect reflect the scientific evidence and complies with the criteria laid down in the Regulation.

When considering these elements EFSA should also provide advice, when appropriate:

- on the appropriate application of Article 10 (2) (c) and (d) in the Regulation, which provides for additional labelling requirements addressed to persons who should avoid using the food; and/or warnings for products that are likely to present a health risk if consumed to excess.

APPENDIX B

EFSA DISCLAIMER

The present opinion does not constitute, and cannot be construed as, an authorisation to the marketing of the food/food constituent, a positive assessment of its safety, nor a decision on whether the food/food constituent is, or is not, classified as foodstuffs. It should be noted that such an assessment is not foreseen in the framework of Regulation (EC) No 1924/2006.

It should also be highlighted that the scope, the proposed wordings of the claims and the conditions of use as proposed in the Consolidated List may be subject to changes, pending the outcome of the authorisation procedure foreseen in Article 13(3) of Regulation (EC) No 1924/2006.

APPENDIX C

Table 1. Main entry health claims related to boron, including conditions of use from similar claims, as proposed in the Consolidated List.

ID	Food or Food constituent	Health Relationship	Proposed wording
221	Boron as boric acid	Prostate health	Boron is beneficial for prostate health. Boron helps to maintain a healthy prostate
	Conditions of use - 0.8 – 1,5 mg of boric acid. Must meet minimum requirements for use of the claim "source of [name of vitamin/s] and/or [name of mineral/s]" as per Annex to Regulation 1924/2006.		
ID	Food or Food constituent	Health Relationship	Proposed wording
222	Boron as boric acid	Thyroid health	Boron supports a healthy thyroid function. Boron is beneficial for the thyroid function.
	Conditions of use - 0.8 – 1,5 mg of boric acid. Must meet minimum requirements for use of the claim "source of [name of vitamin/s] and/or [name of mineral/s]" as per Annex to Regulation 1924/2006.		
ID	Food or Food constituent	Health Relationship	Proposed wording
223	Boron as boric acid	Mental health <u>Clarification provided</u> May help maintain normal brain function	Boron supports the brain functioning
	Conditions of use - Food supplement with 3 mg of boron in the daily dose - 0.8 – 1,5 mg of boric acid ; Must meet minimum requirements for use of the claim "source of [name of vitamin/s] and/or [name of mineral/s]" as per Annex to Regulation 1924/2006		